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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,586	03/29/2004	Sundergopal Sridhar	101090.0004US	101090.0004US 2627	
7590 09/19/2006		EXAMINER			
Rutan & Tucker, LLP			LANGEL, WAYNE A		
Suite 1400 611 Anton Blvd.			ART UNIT	PAPER NUMBER	
Costa Mesa, CA 92679			1754		
	•		DATE MAILED: 09/19/2006	j	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/812,586	SRIDHAR ET AL.			
Office Action Summary	Examiner	Art Unit			
	Wayne Langel	1754			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for alloward	nce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application	•				
4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.		•			
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on 29 March 2004 is/are:	a)⊠ accepted or b)□ objected to	o by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a)			
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:)-(d) or (f).			
1. Certified copies of the priority document					
2. Certified copies of the priority document	• •				
3. Copies of the certified copies of the prior		a in this National Stage			
application from the International Bureau * See the attached detailed Office action for a list		ad.			
occ the attached detailed office action for a list	or the definited doples not receive	·u.			
Attachment(s)		(070, 440)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5-26-04</u> .	5) Notice of Informal F 6) Other:				

Application/Control Number: 10/812,586

Art Unit: 1754

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Terms such as "undesirable" and "undesired" render the scope of the claims vague and indefinite, since it is not clear which components would be desired or undesired. The term "such as" also renders the scope of the claims vague and indefinite, since it is not clear as to whether all of the components in the recited list are required to be present in the industrial solution, or only at least one of them or none of them.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Twardowski et al in view of the article by Yuan et al. ("Application of membrane separation impurity removal process in PAN production") (Abstract only). Twardowski et al disclose a nanofiltration process for reducing the concentration of undesirable compounds in aqueous solutions. The difference between the process disclosed by Twardowski et al, and that recited in applicants' claims, is that Twardowski et al do not disclose that the process should be carried out for purifying sodium thiocyanate solutions. The Abstract of the article by Yuan et al discloses a membrane separation

Application/Control Number: 10/812,586

Art Unit: 1754

process for removing impurities from a sodium thiocyanate solution. It would be obvious from the Yuan et al article to purify sodium thiocyanate solutions according to the process of Twardowski et al. One of ordinary skill in the art would be motivated to do so, since the process of Twardowski et al is directed broadly to the nanofiltration of aqueous salt solutions, and Yuan et al suggest the desirabity of purifying sodium thiocyanate solutions by membrane separation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/812,586

Art Unit: 1754

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel Primary Examiner Art Unit 1754